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Potlatch

RECEIVED

JAN 18 2001

IDHW-DEQ
Coeur d'Alene Field Office

Potlatch Corporation
Resource Management Group
Idaho Region

St. Joe Area Woodlands
P.O. Box 386
St. Maries, Idaho 83861-0386
Telephone (208) 245-4146
Fax (208) 245-6421

2001
January 15, 2000

State of Idaho
Division of Environmental Quality
2110 Ironwood Parkway
Coeur d'Alene ID 83814

Attn: Kreg Beck

RE: Avery Landing Remediation

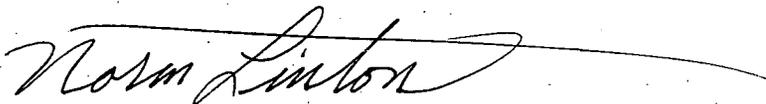
Dear Kreg,

The Avery Landing Remediation System Installation and Third-Quarter 2000 Performance Report was prepared by our consultant Hart Crowser, Inc. and is attached for your review.

The November and December well monitoring reports are also attached for your files.

Kreg, if you have any questions please call me at my St. Maries office.

Sincerely,



Norm Linton
Area Manager

USEPA SF



1373310

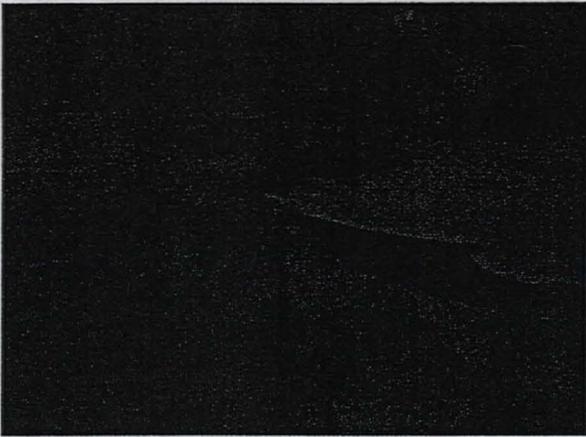
MONITORING +
TASK Reports

NEW SECTION

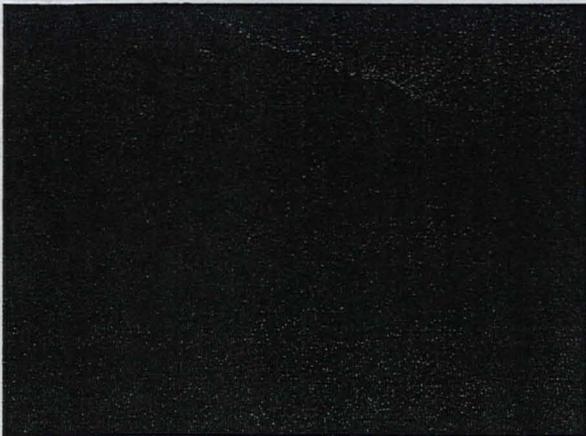
1.16



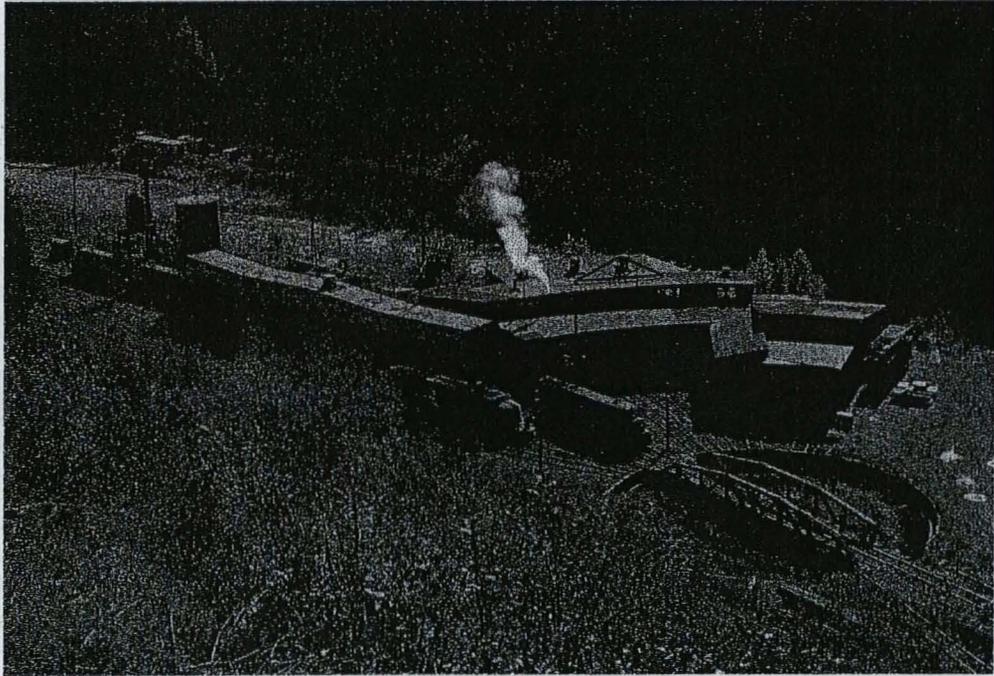
Avery Landing0.JPG
12/14/00
View of river where it goes by the site. No signs of petroleum.

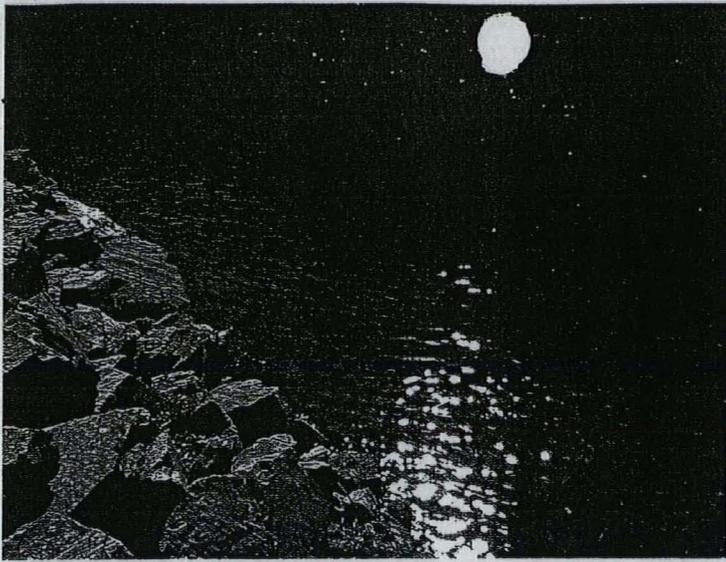


Avery Landing1.JPG
12/14/00
Viewing up river from mid portion of site

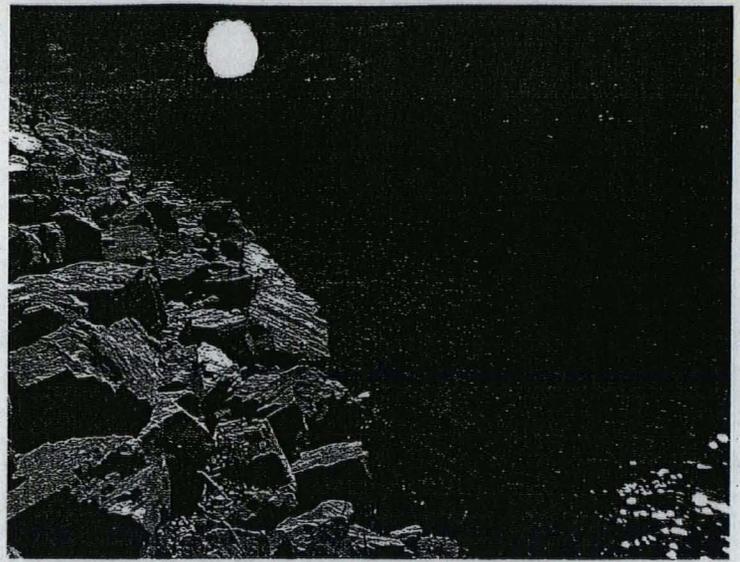


Avery Landing2.JPG
12/14/00
Photo of Potlatch personnel monitoring petroleum levels in Extraction Well #2





Avery Landing0000.JPG
8/21/01



Avery Landing0001.JPG
8/21/01



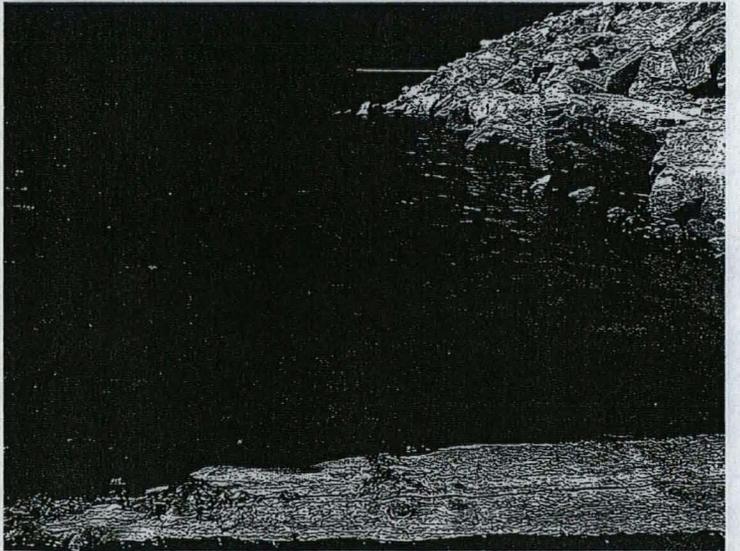
Avery Landing0002.JPG
8/21/01



Avery Landing0003.JPG
8/21/01



Avery Landing0004.JPG
8/21/01



Avery Landing0005.JPG
8/21/01

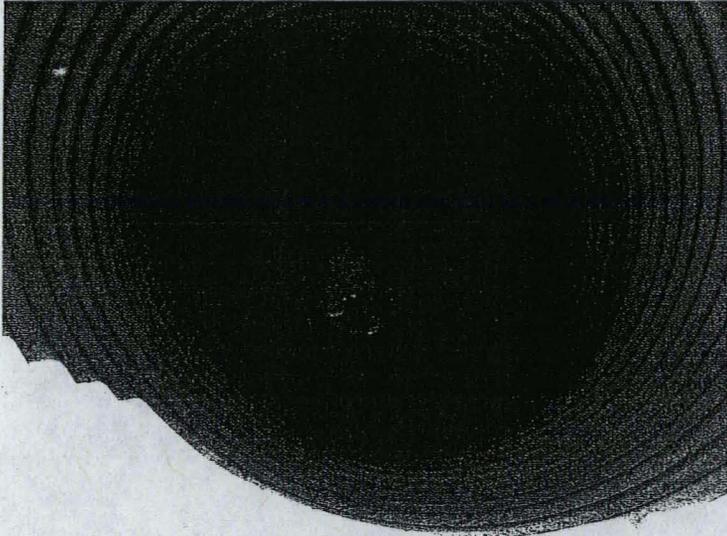
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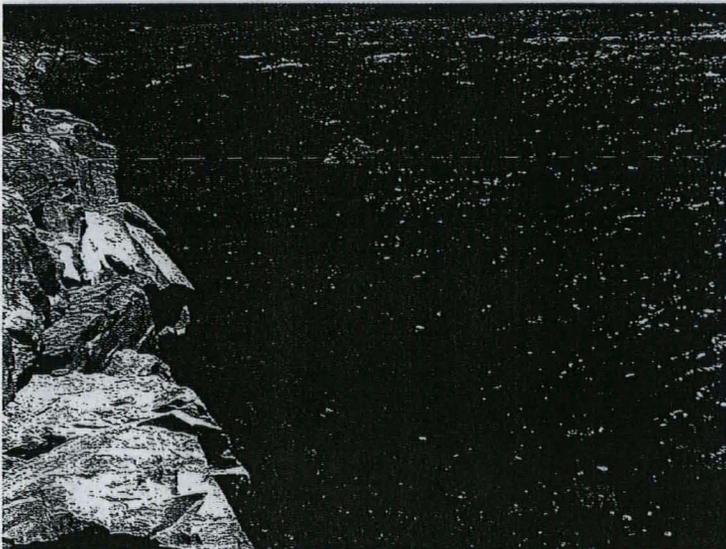
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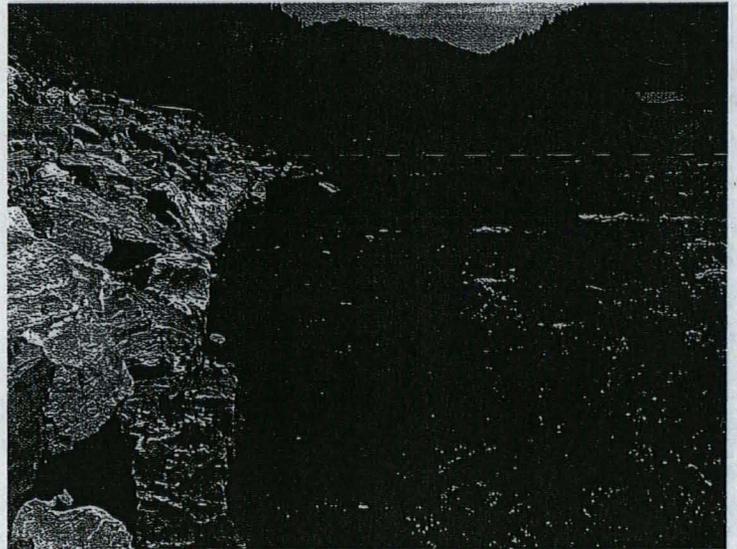
Avery Landing0006.JPG
8/21/01



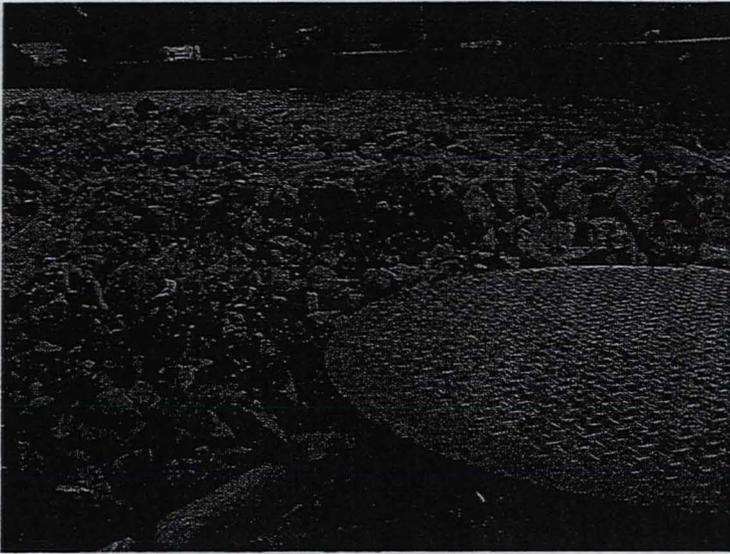
Avery Landing0007.JPG
8/21/01
Photo of inside of CW-3; oil film visible



Avery Landing0008.JPG
8/21/01

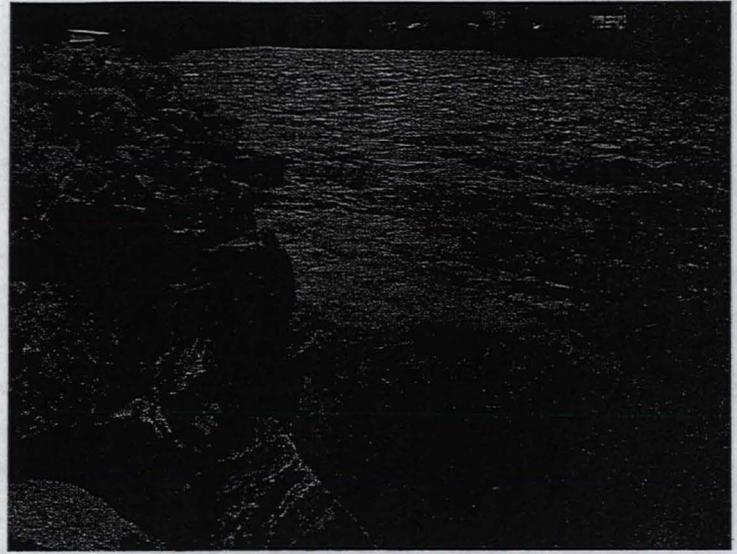


Avery Landing0009.JPG
8/21/01



Avery Landing0000.JPG
5/15/01

Photo showing one of the Ponderosa Pine trees planted on site on this date



Avery Landing0001.JPG
5/15/01

Photo showing the river bank at the site. River was running high from a recent rain storm

FILE NOTE

By: Kreg Beck

Date: 11/9/00

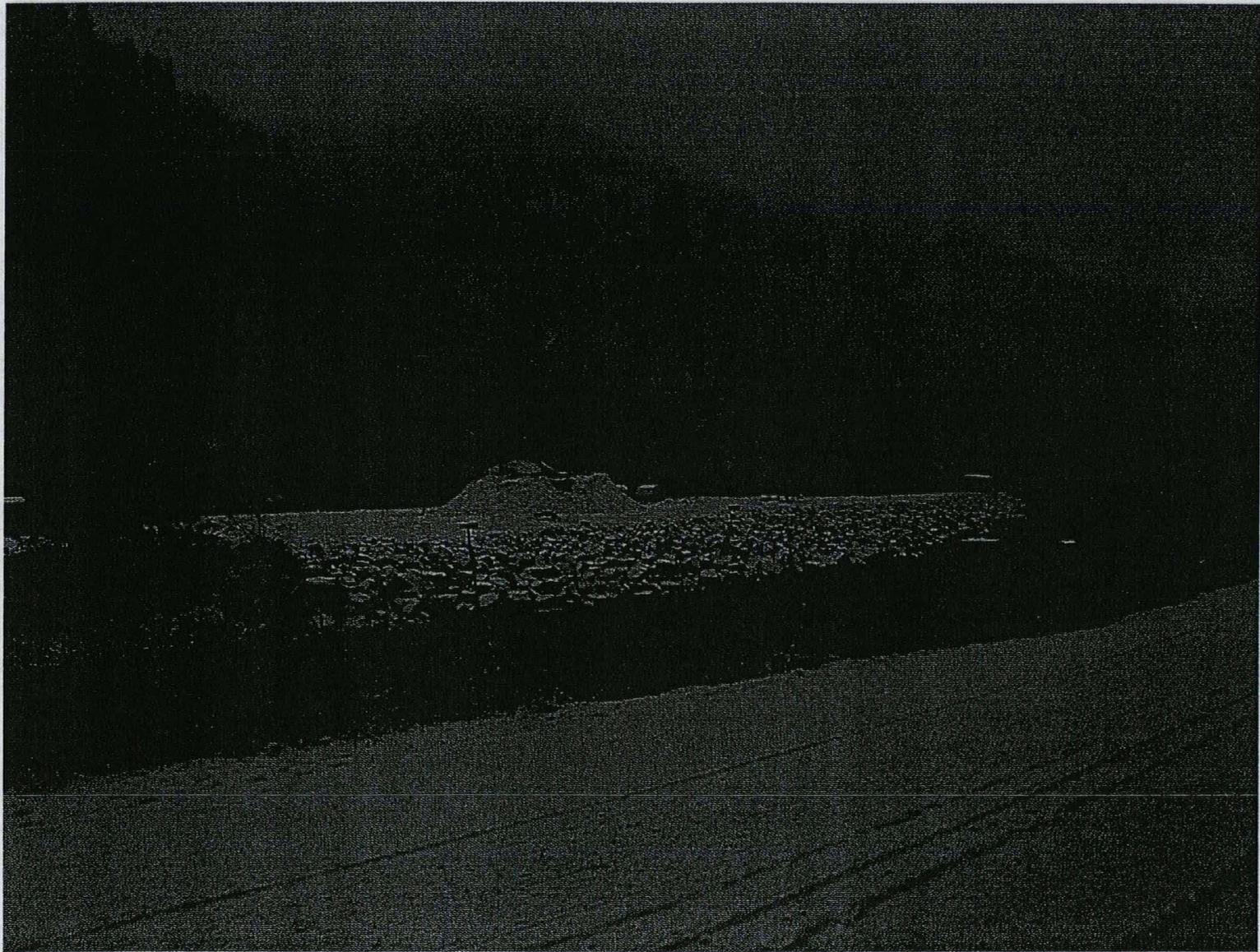
Subject: Avery Landing

I visited the Avery Landing site on 11/8/00 and participated in the monitoring of several monitoring wells, test wells, and extraction wells. Several pictures were taken of the site. These are contained in the file. It snowed all day the day of the site visit.

Highlites of the visit are the following:

- The river was completely clean; no sign of hydrocarbon sheen was observed throughout the length of the site.
- Upon completion of the monitoring of all wells, there was no more that a heavy sheen recorded in any well except for an old, 2" monitoring well which on going studies indicate is probably an erroneous reading.
- At least 2 of the 6 "CW" recovery wells were damaged at the time of installation and the sides of these wells are pushed in. This may be a problem in the future with mud and silt filling up the well.
- The entire site was seeded with grass on the morning of the site visit, 11/8/00.

AVERY LANDING



View of entire site from across(s) river

11/08/2000

AVERY LANDING

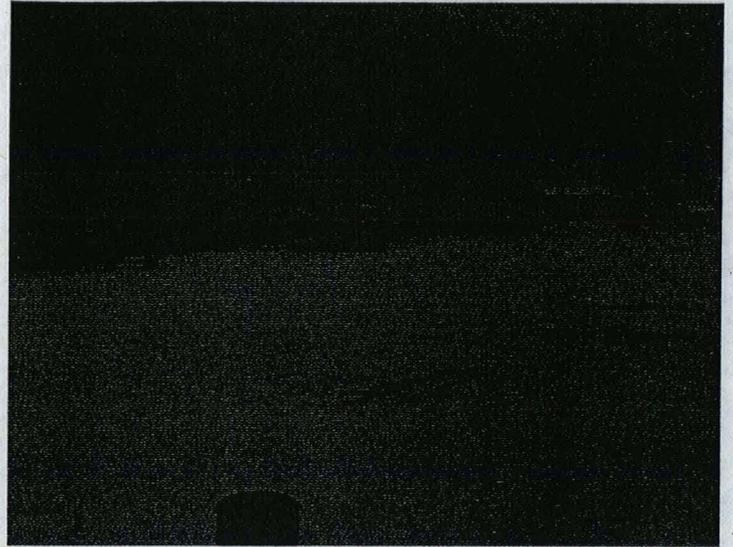


Looking down recovery well CWS
Sides caved in significantly approx 5' down

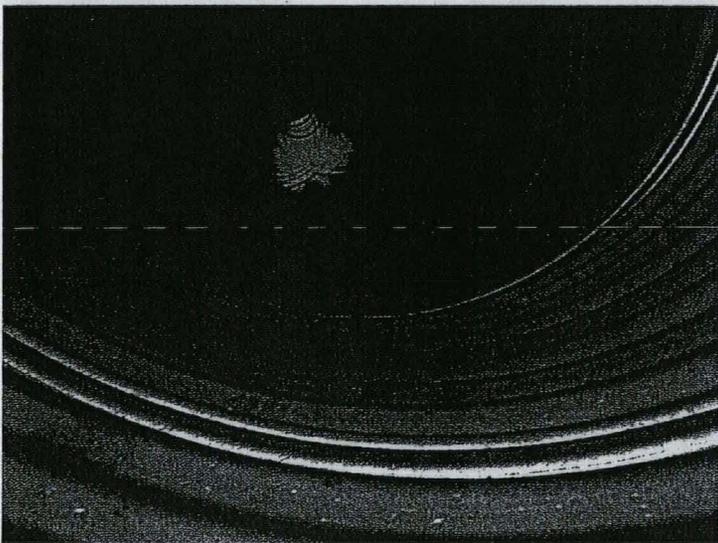
11/08/2000



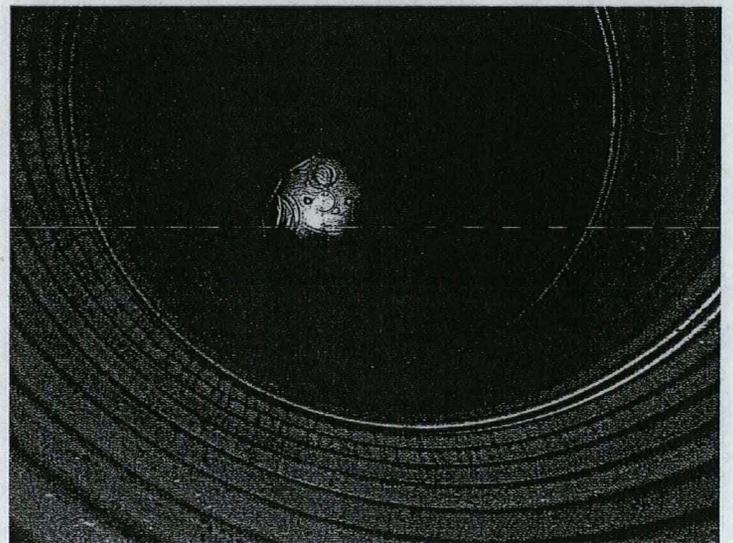
Avery Landing 012.JPG
11/08/2000
Viewing E across E end of site



Avery Landing 013.JPG
11/08/2000
Photo of where W end of liner terminated. Basically, just past the cedar tree
and a good 40' away (N) of the bank



Avery Landing 014.JPG
11/08/2000
Viewing inside recovery well CW1



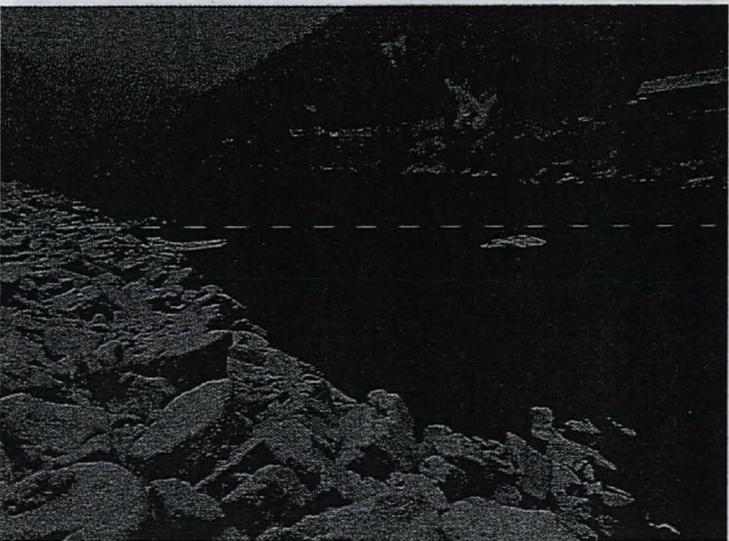
Avery Landing 015.JPG
11/08/2000
Viewing inside recovery well CW1



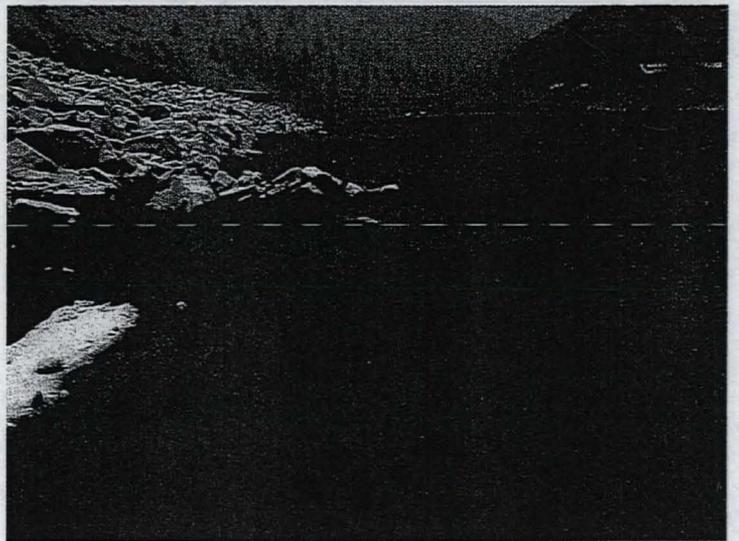
Avery Landing 008.JPG
11/08/2000
Viewing E, upstream, from far W end of site



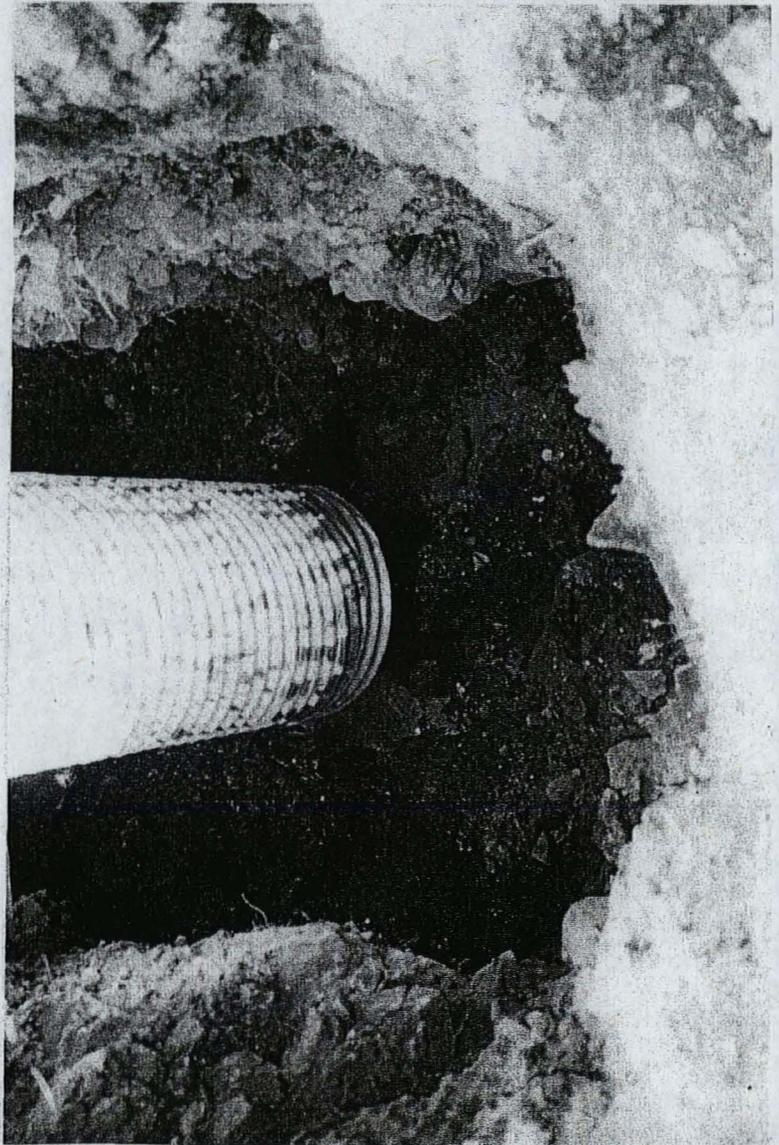
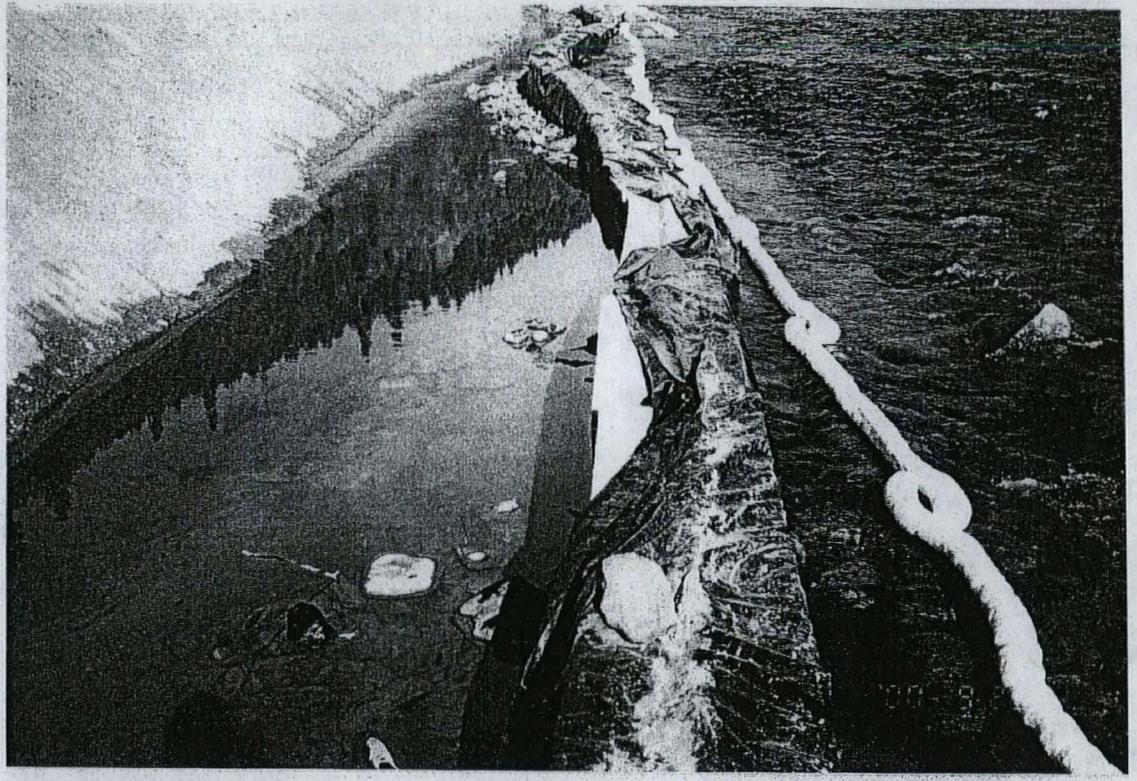
Avery Landing 009.JPG
11/08/2000
Viewing across the bank and upstream, 1/3 of the way E from W end of site

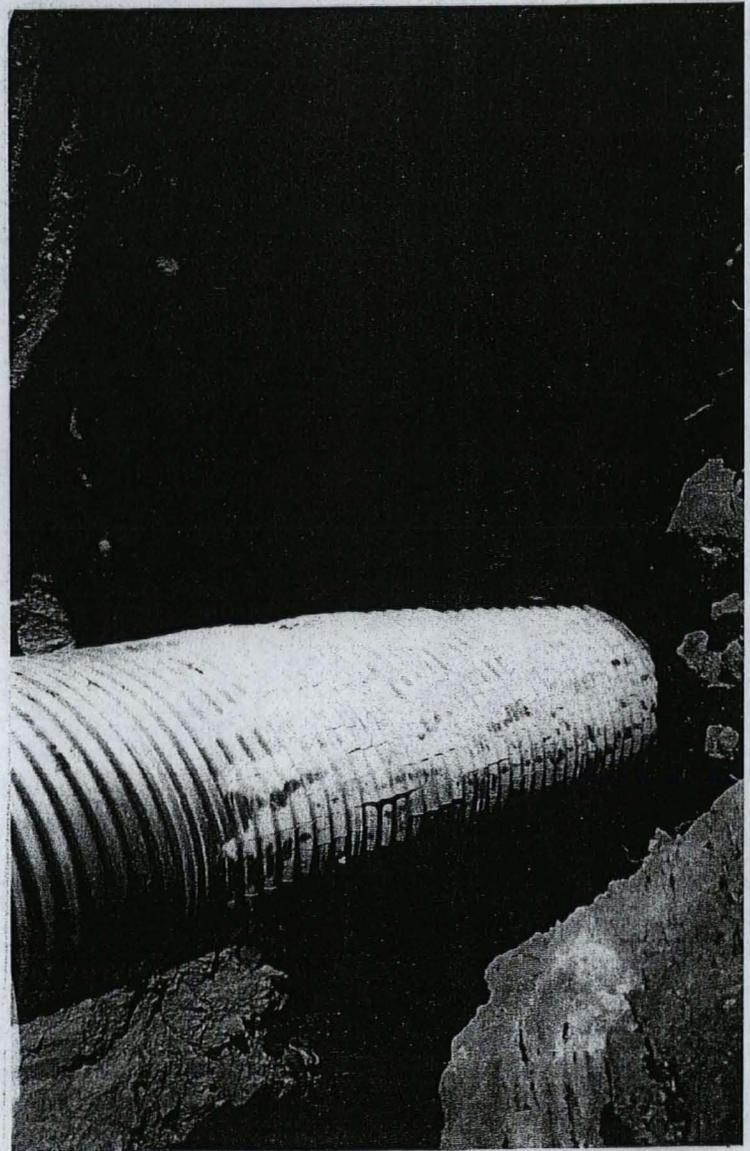
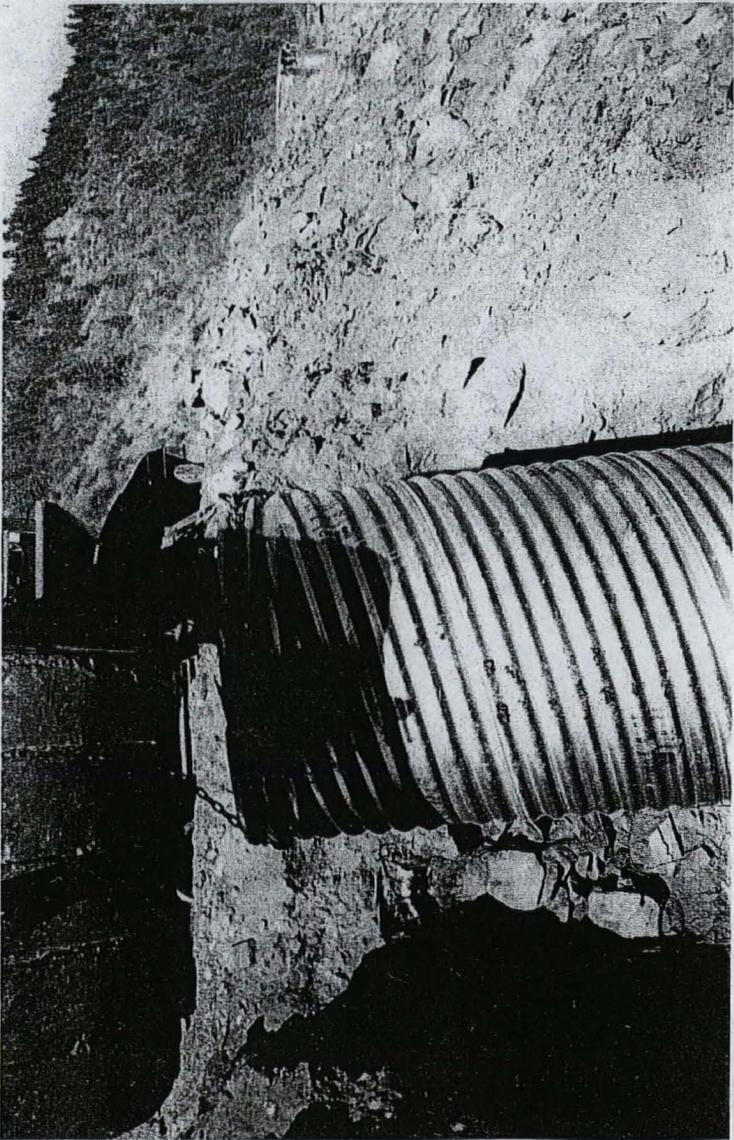
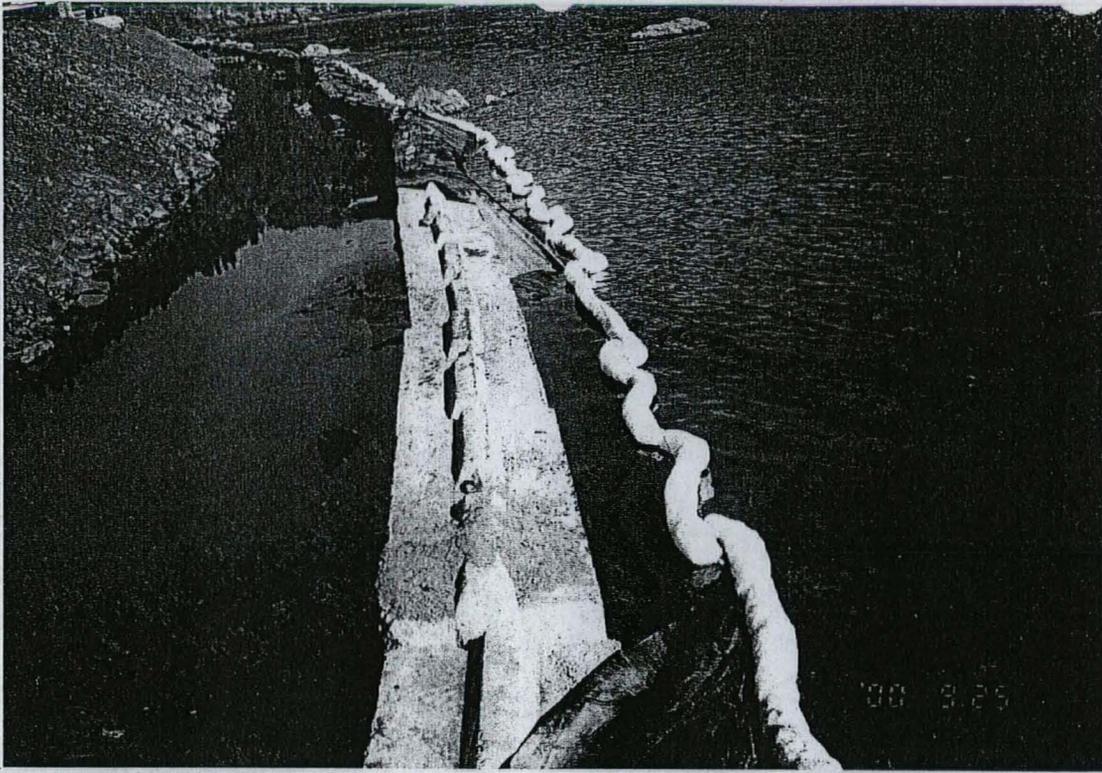


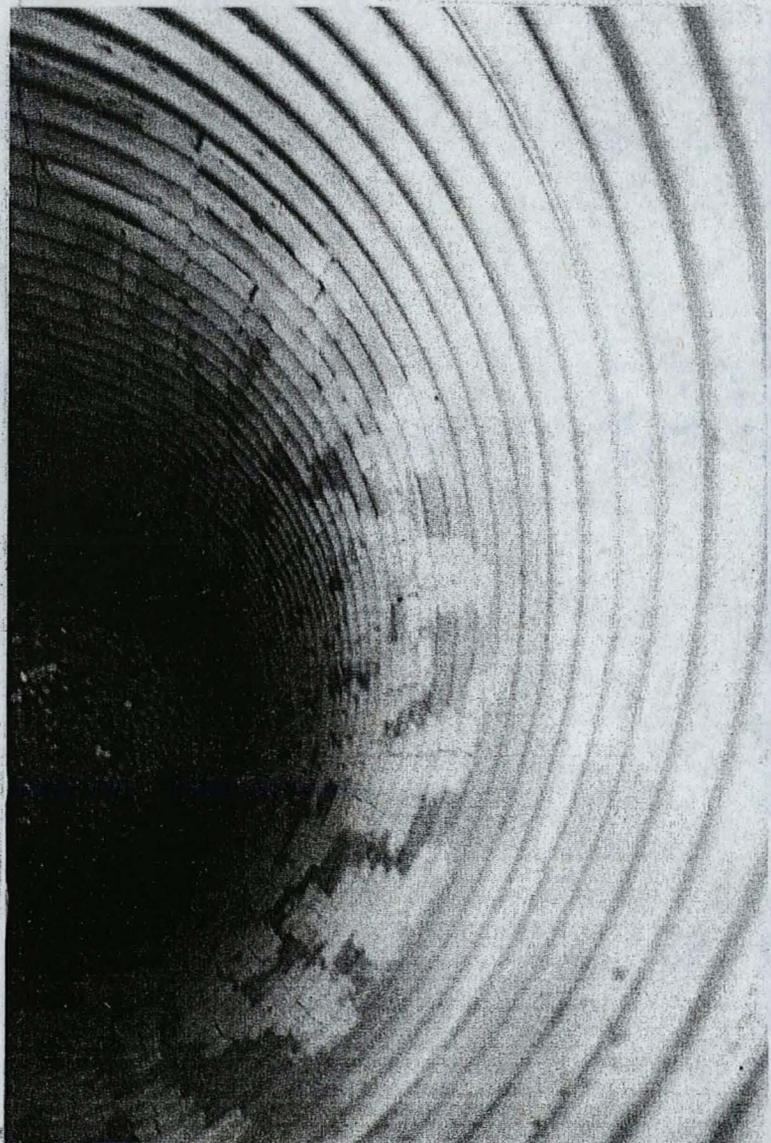
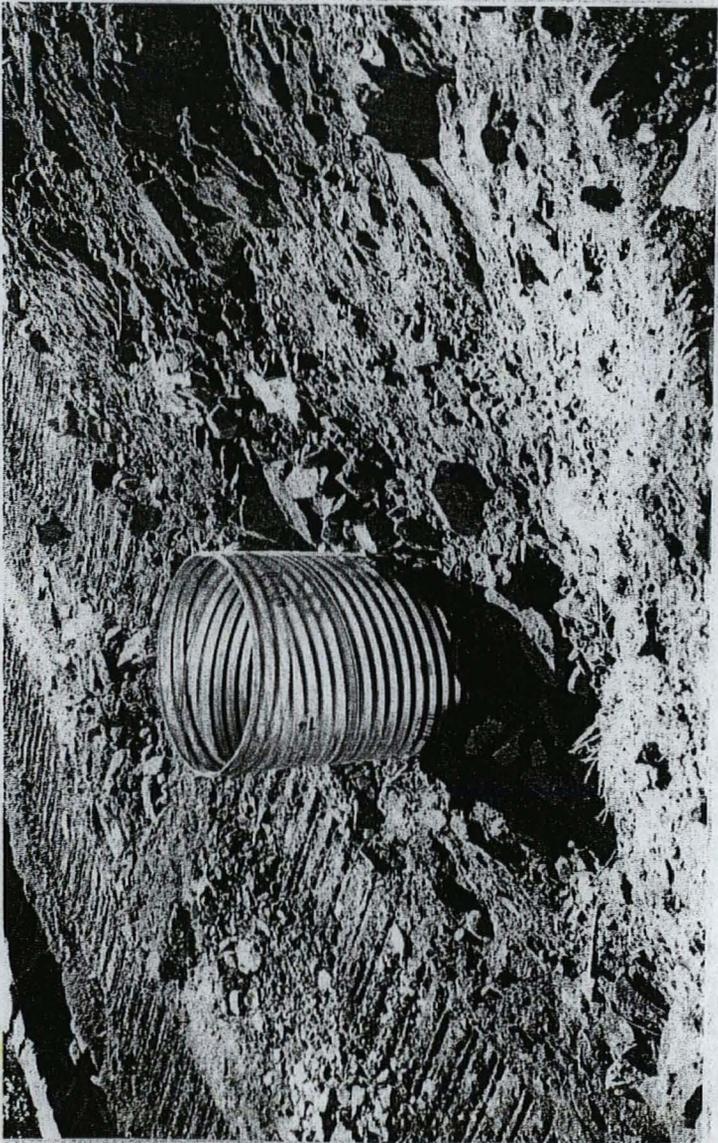
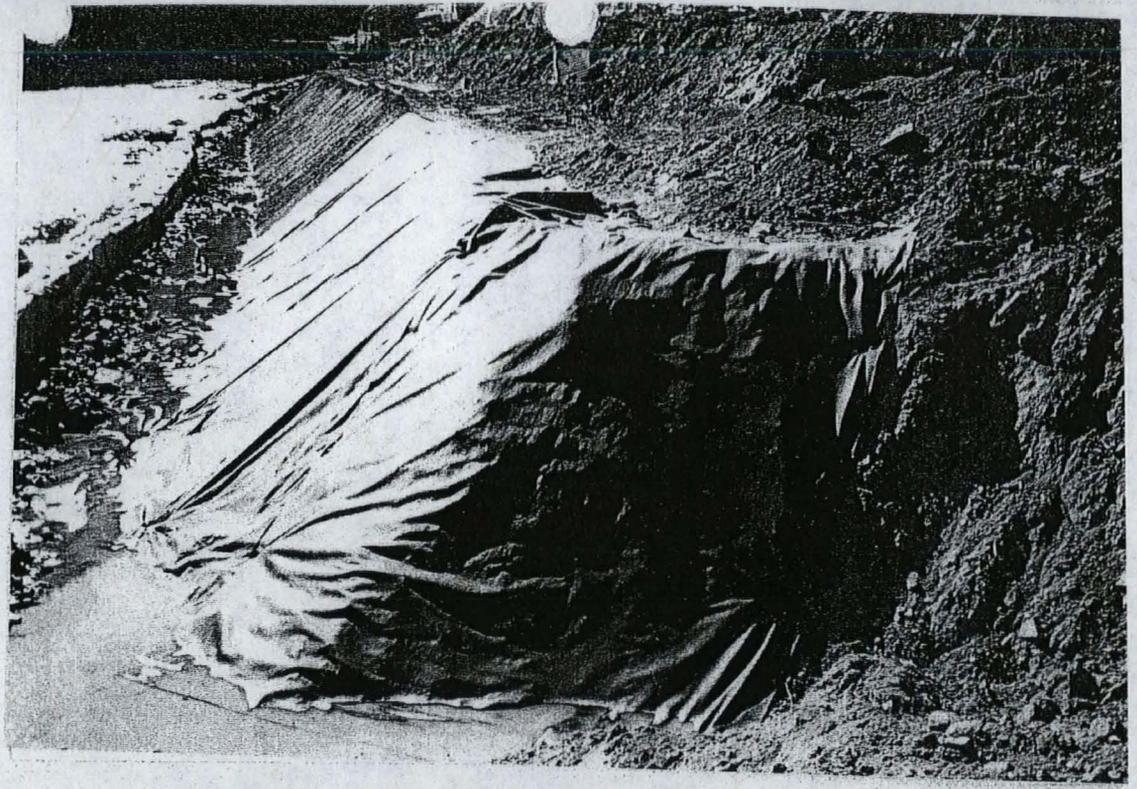
Avery Landing 010.JPG
11/08/2000
Viewing upstream in center portion of site. Wooden platform visible in center of photo



Avery Landing 011.JPG
11/08/2000
Viewing E from wooden platform along edge of river. Two "barbs" visible in bg







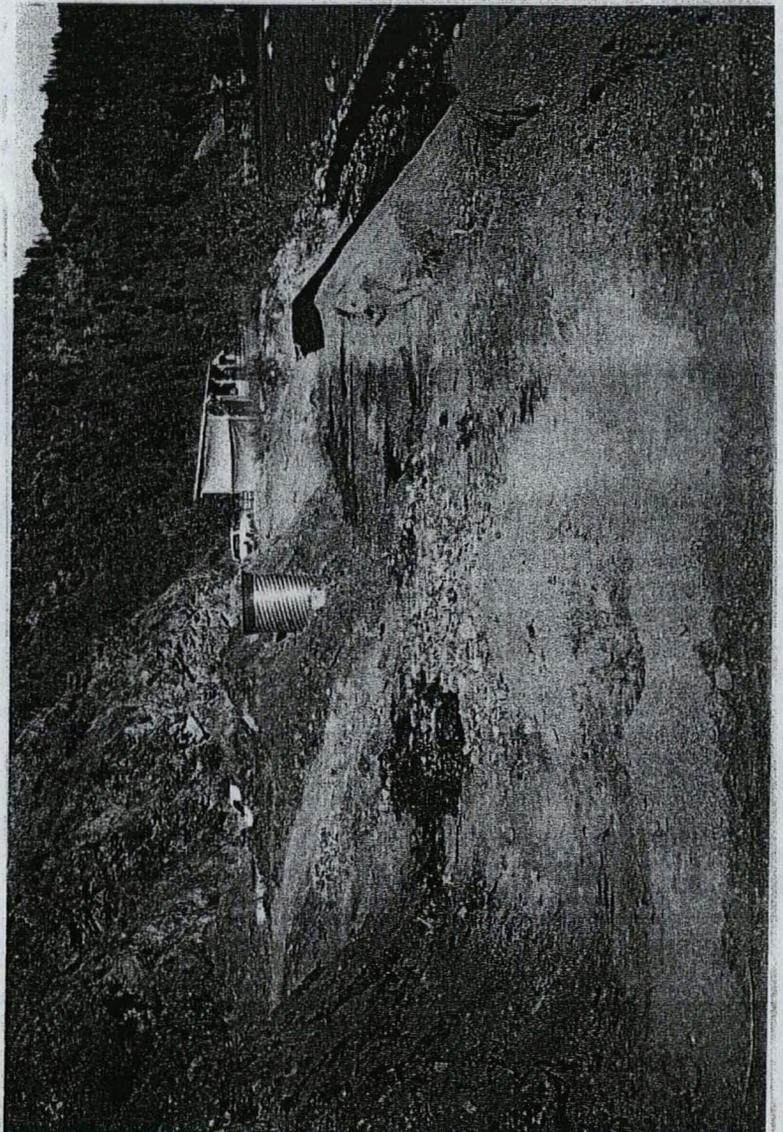
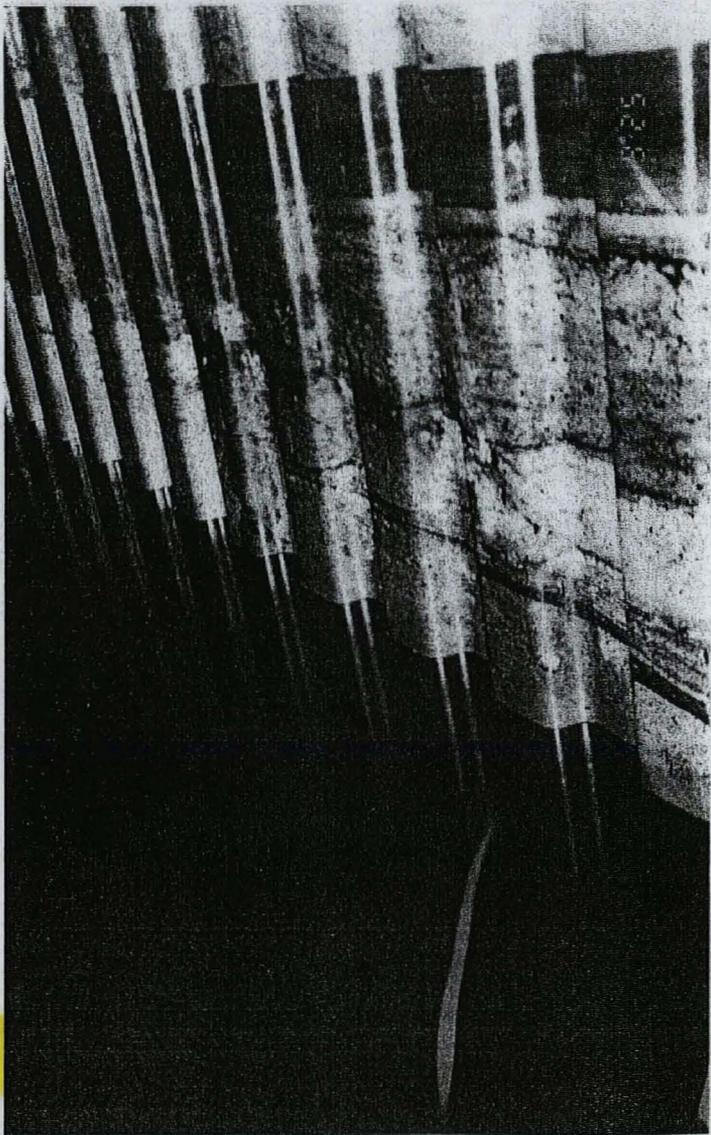
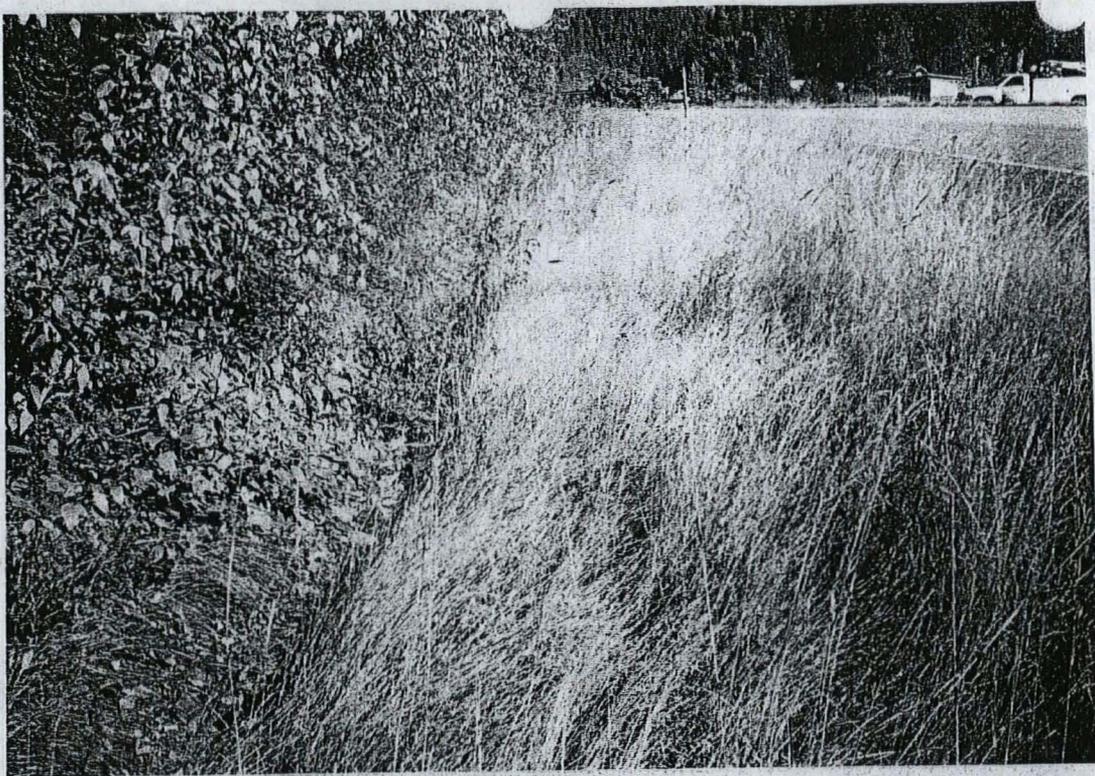




Photo of the inside of the portable
O/W separator petroleum film evident
KB



To: Gregg.A.Rayner@nww01.usace.army.mil
From: Norm Linton <Norm.Linton@potlatchcorp.com>
Subject: Fwd: USFWS comments # 2
Cc: Rick_Donaldson@r1.fws.gov -
Bcc:
Attached:

Gregg Rayner our response to USFWS comments # 2 are as follows:

X-Mailer: Novell GroupWise Internet Agent 5.5.2.1
Date: Thu, 07 Sep 2000 12:42:27 -0700
From: "Terry Montoya" <twm@hartcrowser.com>
To: <Norm.Linton@potlatchcorp.com>
Subject: USFWS comments
X-MIME-Autoconverted: from quoted-printable to 8bit by lew.potlatchcorp.com id MAA14848

Norm,

I talked to both Gregg and Rick via conference call and here are the responses that would satisfy Rick for the section 7 review.

The item you need to provide are the spec sheet for the boom and Don Green's contact number. Additionally if you want to change the contact order or numbers just edit them when you fwd the message.

Thanks

Silt control and Contingency Spill Plan (from Potlatch email 8/31/00), page 2: "Should the...

Silt control and Contingency Spill Plan (discharge to river), page 2: "Water quality...

Clarification for both above comments:

After reviewing the concerns of USFWS and examining the construction issues with running the slipstream to the St. Joe river, we have decided against using a slipstream for pumped water. The water from dewatering activities will be run through a 20,000 gallon settling and oil/water separator tank, then pumped into the reintroduction trench of the former treatment system.

Removal Activities, page 3: "Sheens...

a-b) The spec sheet for the absorbent boom is attached. The spill prevention plan for the free product oil consists of five safety stages. Stage 1 of containment is the pumping of the encountered free product to the 20,000 gallon oil/water separator. Stage 2 is absorbent pads and booms, approximately 4 bags of pads and 400 feet of boom, inside of the cofferdam area. Stage 3 is the cofferdam itself. Stage 4 is an absorbent boom, approximately 700 feet, floating on the outside of the cofferdam. Stage 5 is extra booms, approximately 400 feet, on site should all four stages fail to contain the oil. In periods of down time during "in river"

construction, such as weekends, there will be daily inspections completed on the safety stages in place. No more than 24 hours will pass between these site inspections during "in river" construction.

c) IDEQ will direct Potlatch on where to dispose of the contaminated booms. It will most likely be the Potlatch boilers in St. Maries, or Energy Recovery in Spokane.

d) In the event all five safety stages fail and oil is deposited on the adjacent shoreline, the oil will be cleaned up by wiping the oil off of the rock using absorbent pads.

e) The emergency contacts for the project are as follows:

Don Green (208) 245-3607

Norm Linton
Potlatch
(208) 245-4146

Greg Rapp
Potlatch
(208) 245-4146

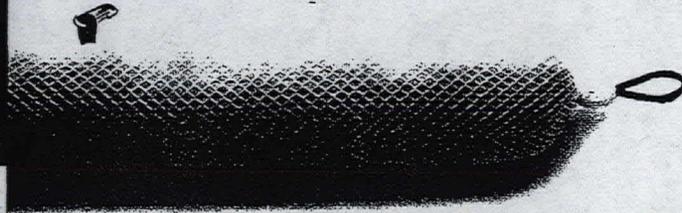
Terry Montoya
Hart Crowser
(206) 571-3588

Removal Activities, page 3: "Every...

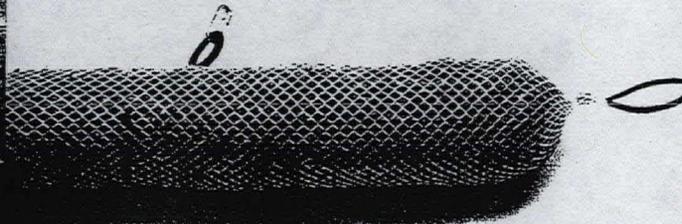
a) After construction is complete and the cofferdam has been removed the construction area will be monitored monthly for an oil sheen. During the removal of the cofferdam the absorbent boom on the outside of the dam will be left in place to capture any sheen left from construction activities.

b) If a sheen is found on the river after construction has been completed the absorbent booms will be left in place to capture the sheen.

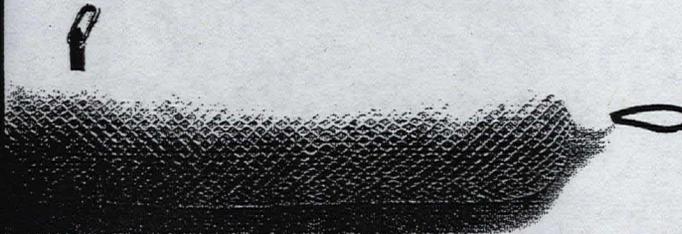
booms & sweeps



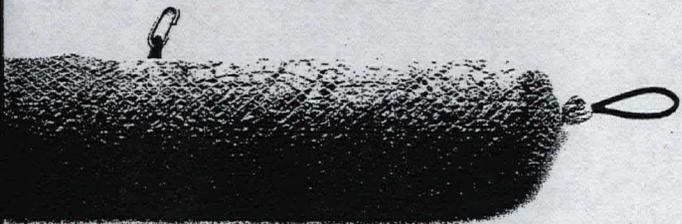
GRAY DOUBLE-SLEEVE BOOM



GRAY SPAGHETTI BOOM



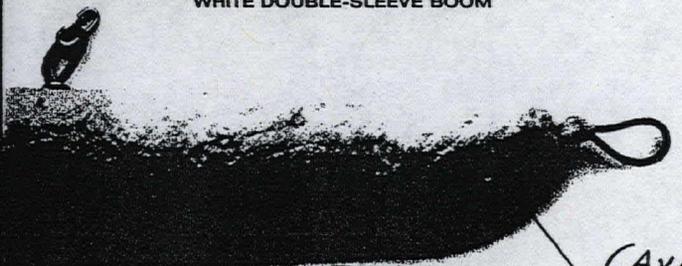
BLUE DOUBLE-SLEEVE BOOM



BLUE SPAGHETTI BOOM

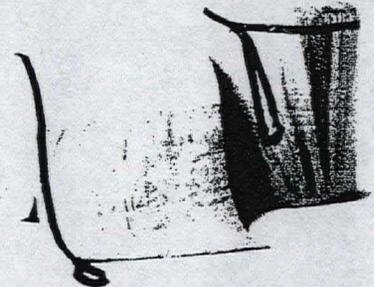


WHITE DOUBLE-SLEEVE BOOM



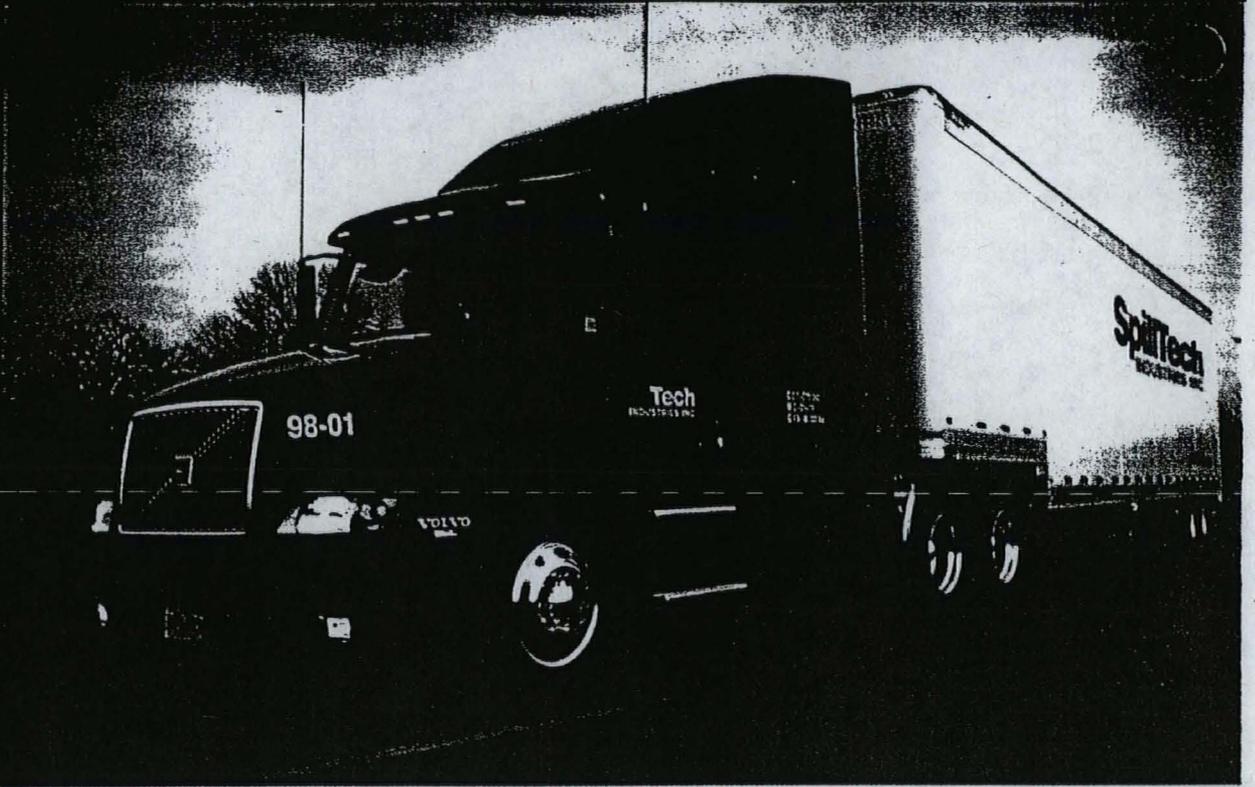
WHITE SPAGHETTI BOOM

SpillTech's line of booms are used extensively in spill cleanup and containment applications. All of our booms are manufactured using strong nylon meshing and steel hardware, ensuring their use over long periods of time. Spaghetti and double sleeve booms have standard lengths of 10 feet and diameters of 5" and 8". White and blue oil-only booms are available for water applications and gray general-purpose booms are available for land applications.



SpillTech sweeps combine the strength of our laminated sorbent construction with the durability of nylon tension straps. They can be packaged rolled or folded for easy deployment and will resist tearing while cleaning up a spill. SpillTech sweeps are available in either white or blue oil-only form and are packaged in polypropylene bags.

{ A very Landing containment Booms 5" Dia. 1600 h.F. will be on site. }



Warranty

WE WILL REPLACE OR GIVE A MONEY REFUND FOR ANY OF OUR PRODUCT WHICH IS DEFECTIVE IN MATERIAL OR WORKMANSHIP. THIS WARRANTY IS SUBJECT TO OUR BEING GIVEN IMMEDIATE WRITTEN NOTICE AND THE OPPORTUNITY TO INSPECT THE PRODUCT AT OUR PLANT, OR AT THE POINT OF USAGE, AT OUR OPTION.

Disposal

AS FLUIDS ABSORBED MAY BE TOXIC AND ENVIRONMENTALLY HARMFUL OR HAZARDOUS, USER IS CAUTIONED TO COMPLY WITH ALL LAWS REGARDING DISPOSAL.

Danger

FLAMMABLE AND OTHER HAZARDOUS LIQUIDS, WHEN CONTAINED IN ABSORBENT MATERIAL CONTINUE TO BE UNSAFE AND UNDER CERTAIN CONDITIONS MAY SPONTANEOUSLY IGNITE. TO AVOID PERSONAL INJURY, ALWAYS WEAR APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATORY DEVICE AND HANDLE MATERIAL WITH CAUTION.

Liability Limited

OUR LIABILITY SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW WITH RESPECT TO PRODUCTS SOLD BY US OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO. WE DISCLAIM AND SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL AND CONTINGENT DAMAGES WHATSOEVER. THE REMEDIES SET OUT HEREIN ARE EXCLUSIVE.

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INDUSTRIES INC.**

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Canada L6L 6M5
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Fax 905.827-3653
1 800 778-7789

Southern Operation

Brookley Industrial Complex
1627 O'Donoghue Street
Mobile, Alabama
USA 36615

Western Operation

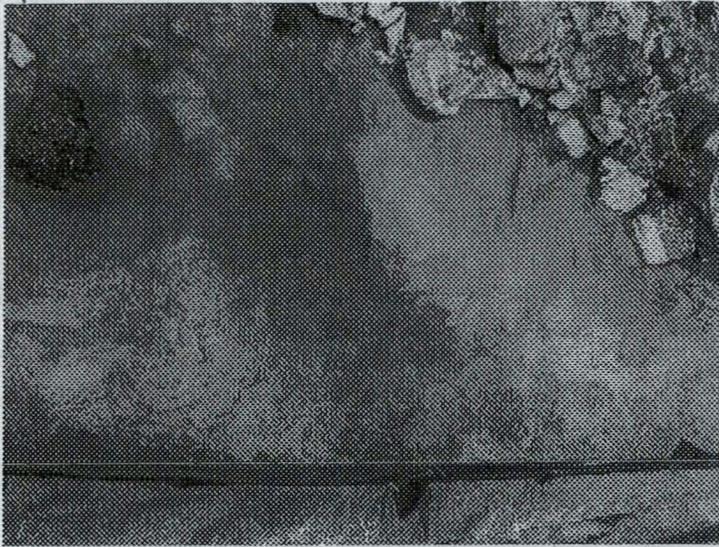
5812 South 196th Street
Kent, Washington
USA 98032

Northern Operation

11 White Oak Drive East
Sault Ste. Marie, Ontario
Canada P6B 4J7

Eastern Operat

3103 Phoenixville Pike
Malvern, PA
USA 19355



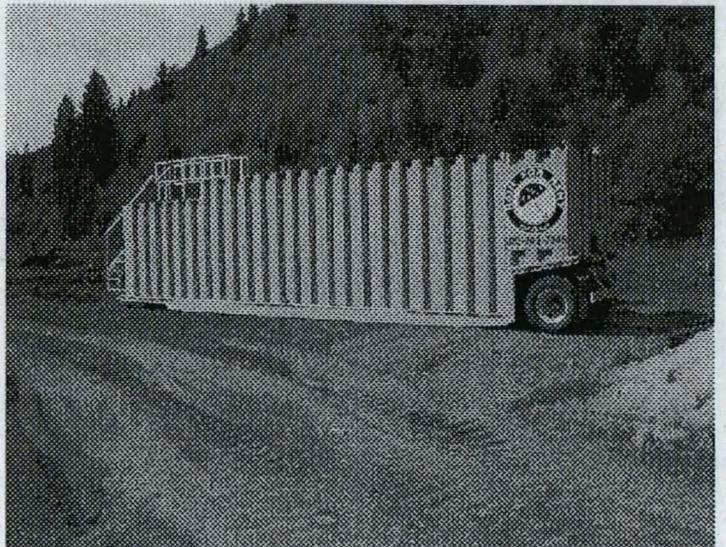
Avery Landing 008.JPG
09/15/2000
View of backside of coffer dam
Petroleum film evident



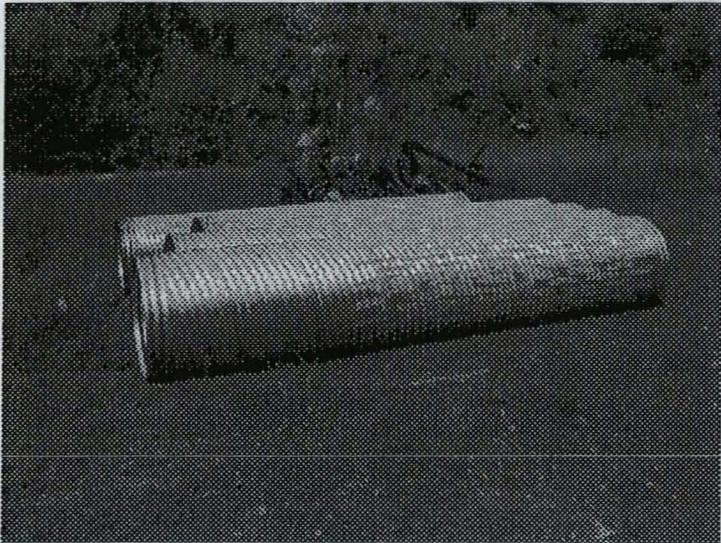
Avery Landing 009.JPG
09/15/2000
Viewing downstream at coffer dam



Avery Landing 010.JPG
09/15/2000
Viewing downstream at coffer dam

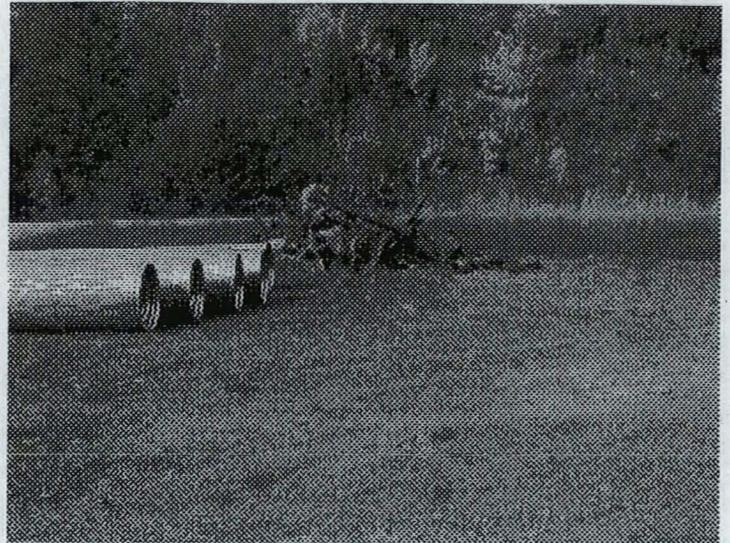


Avery Landing 011.JPG
09/15/2000
Oil/water separator being used on site



Avery Landing 012.JPG
09/15/2000

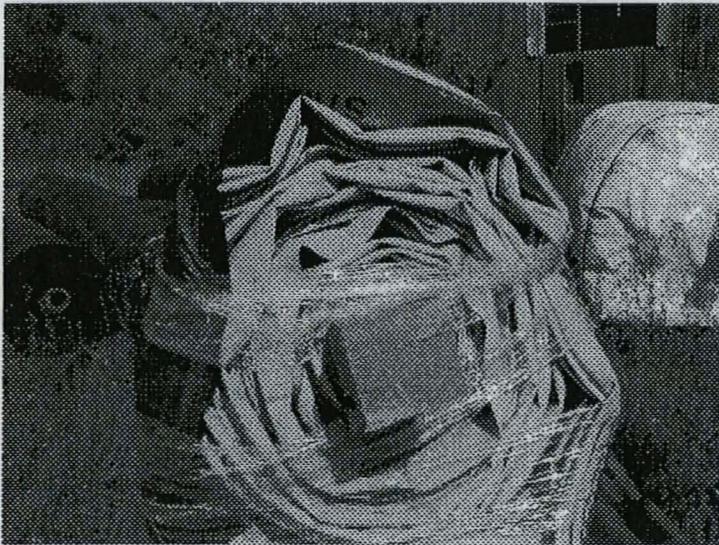
Photo of recovery wells that will be placed just upgradient of liner



Avery Landing 013.JPG
09/15/2000

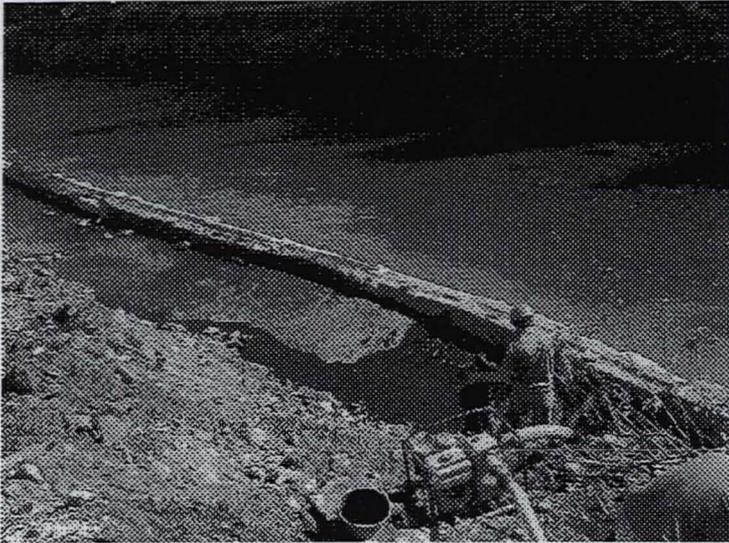
Photo of 3' diameter recover pipes

*& junk metal that has been excavated
from stream bank*



Avery Landing 014.JPG
09/15/2000

Photo of liner that will be placed along stream bank



Avery 008.JPG
09/25/2000

Viewing upriver from W end of site. Lots of petroleum behind coffer dam;
some silting outside of dam



Avery 009.JPG
09/25/2000

Potlatch workers adding new boom to W end of site where minor amounts of
petroleum were escaping thru coffer dam



Avery 010.JPG
09/25/2000

Petroleum seep on bench in approx. center of site. Unknown whether this
came from heavy equip or ground



Avery 011.JPG
09/25/2000

Photo of silt and oil behind coffer dam on W end of site



Avery 012.JPG
09/25/2000

Viewing downstream @ contaminated W end of site, behind coffer dam



Avery 013.JPG
09/25/2000

Viewing upstream across entire coffer dam

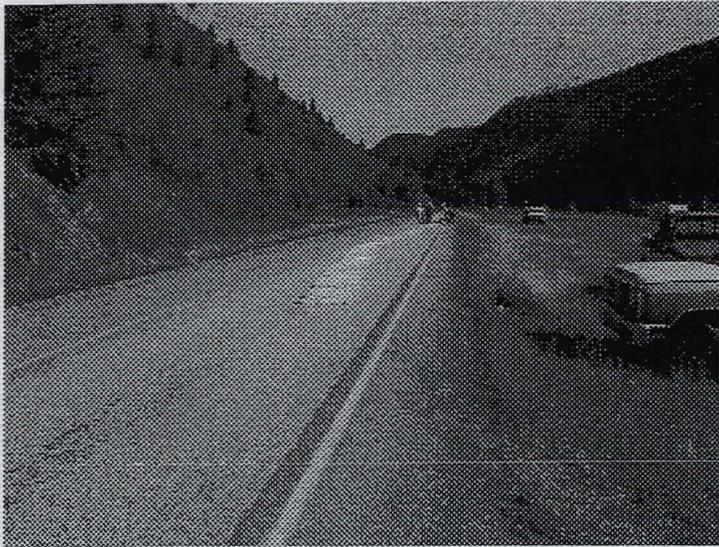


Avery 014.JPG
09/25/2000

Photo of one of the extraction wells being installed

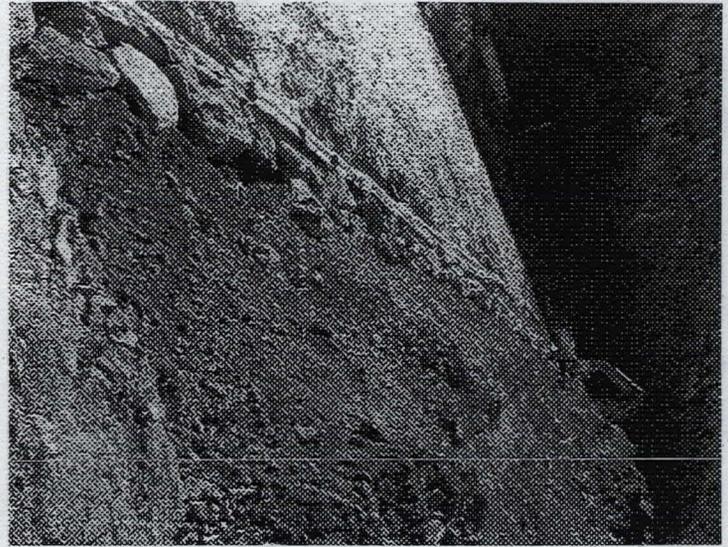


Same as photo # 9



Avery Landing CAP 008.JPG
09/27/2000

Liner being rolled out on hwy to be unfolded and rolled back up on a long steel bar



Avery Landing CAP 009.JPG
09/27/2000

Viewing downriver from E end of site. Liner and rip rap have already been installed in this area



Avery Landing CAP 010.JPG
09/27/2000

Small area of petroleum scum forming behind coffer dam, about 1/3 of the way downstream from E end of site



Avery Landing CAP 011.JPG
09/27/2000

Viewing upriver over eastern third of remediated stream bank. Photo shows smaller rock being overlaid by larger



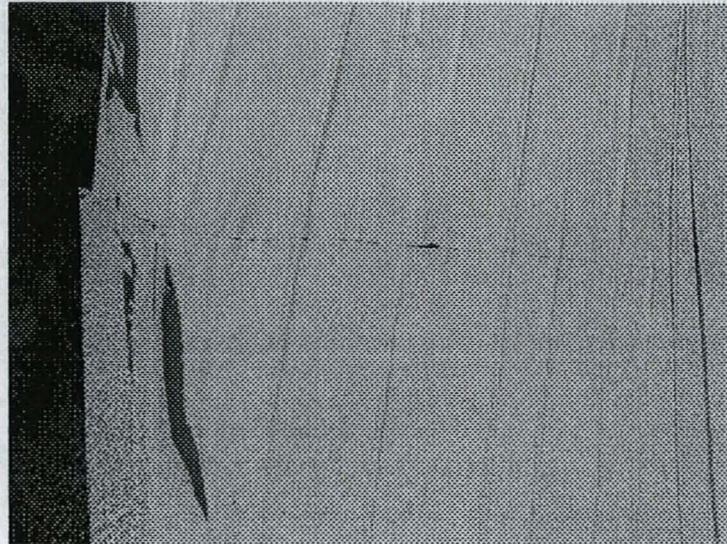
Avery Landing CAP 012.JPG
09/27/2000
Photo of top layer of geofabric at toe of bank



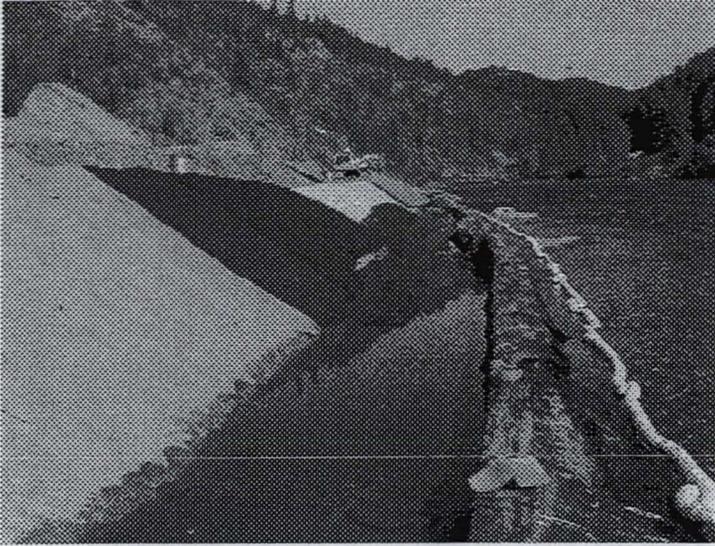
Avery Landing CAP 013.JPG
09/27/2000
Viewing downstream thru center portion of site. Photo shows the geofabric, liner, and rock cover



Avery Landing CAP 014.JPG
09/27/2000
Upstream view of same area as previous photo



Avery Landing CAP 015.JPG
09/27/2000
Photo of a manufactured seam in the liner



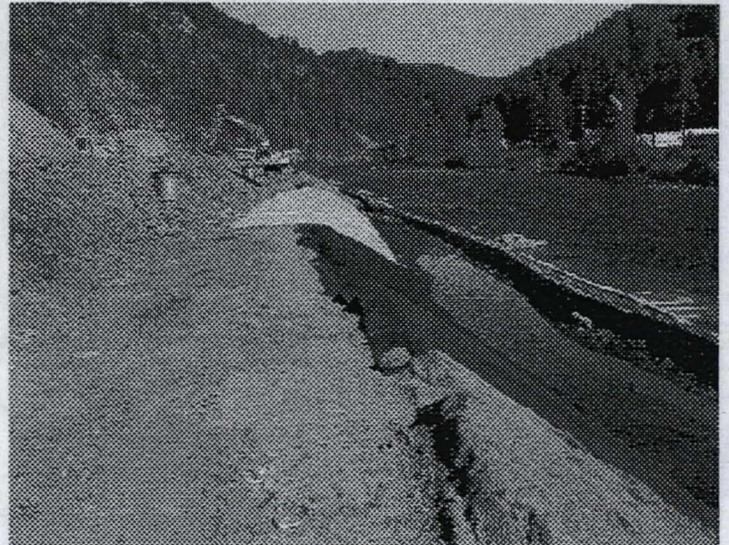
Avery Landing CAP 016.JPG
09/27/2000
Viewing upstream over eastern half of site



Avery Landing CAP 017.JPG
09/27/2000
Photo of petroleum scum buildup on extreme W end of site



Avery Landing CAP 018.JPG
09/27/2000
Photo of river side of coffer dam at W end of site. Some silt but no petroleum was escaping past the dam

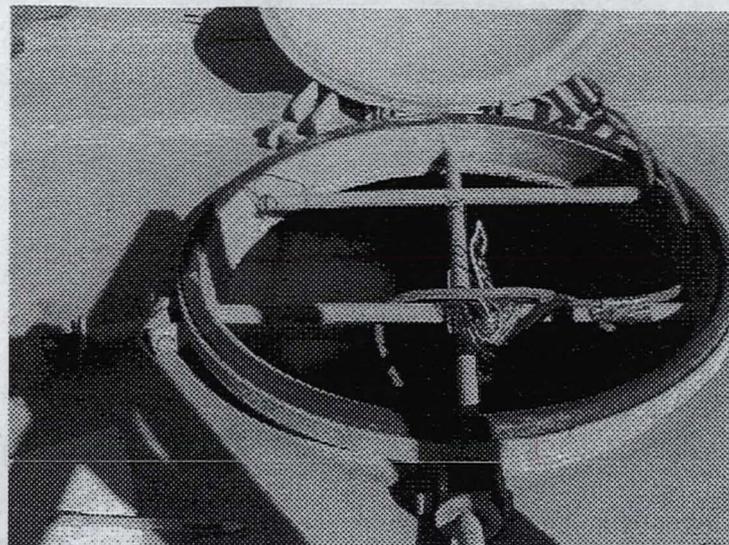


Avery Landing CAP 019.JPG
09/27/2000
Photo showing how geofabric is draped over top of slope



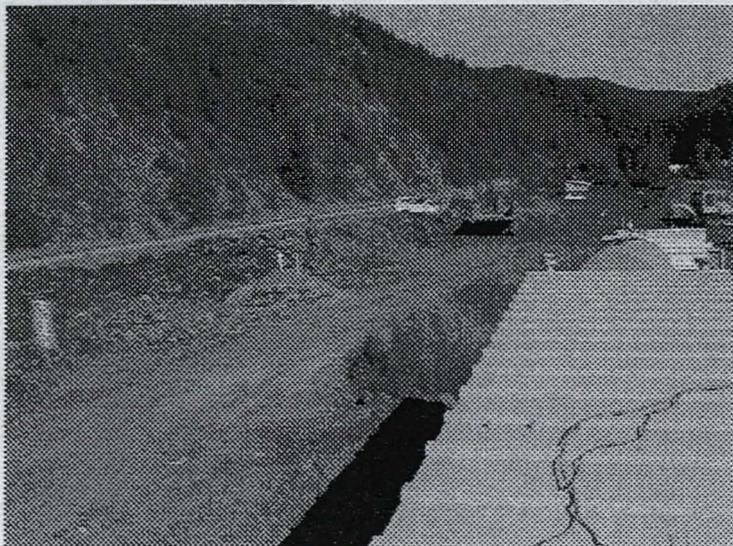
Avery Landing CAP 020.JPG
09/27/2000

Viewing E over a pile of rock and soil that was excavated and stockpiled along the hwy



Avery Landing CAP 021.JPG
09/27/2000

Top entrance to O/W separator. Although not evident, tank was nearly full; very little petroleum film on top of water



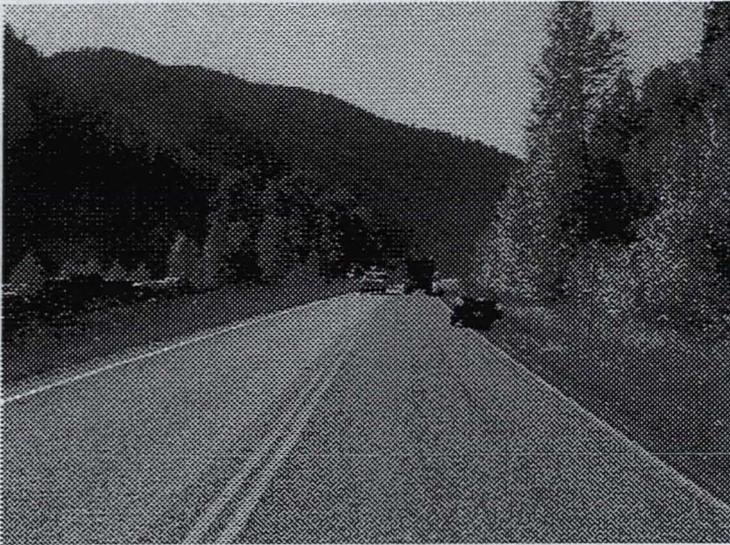
Avery Landing CAP 022.JPG
09/27/2000

Viewing E across stockpiled soils on N end of site



Avery Landing CAP 023.JPG
09/27/2000

Viewing W across W end of site. Crew working on liner, on hwy, in background



Avery Landing CAP 024.JPG
09/27/2000
Photo of re-rolled liner being brought back to site



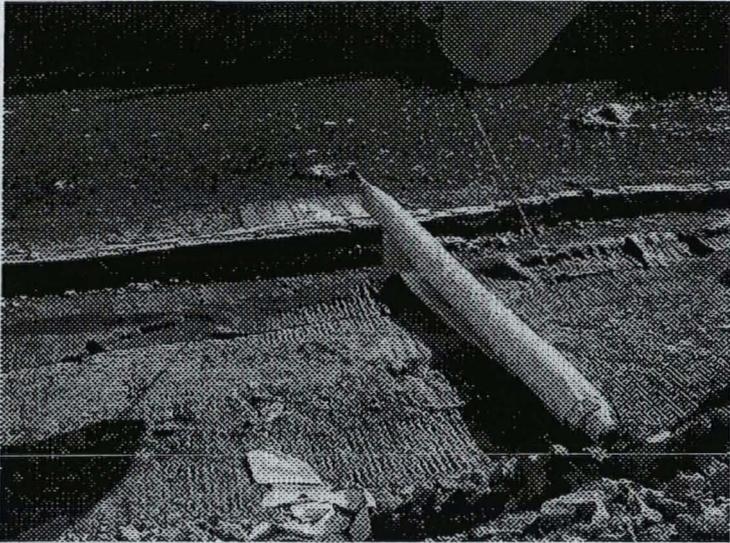
Avery Landing CAP 025.JPG
09/27/2000
Photo showing how liner has been rolled onto long bar then is suspended to be pulled out along the bank



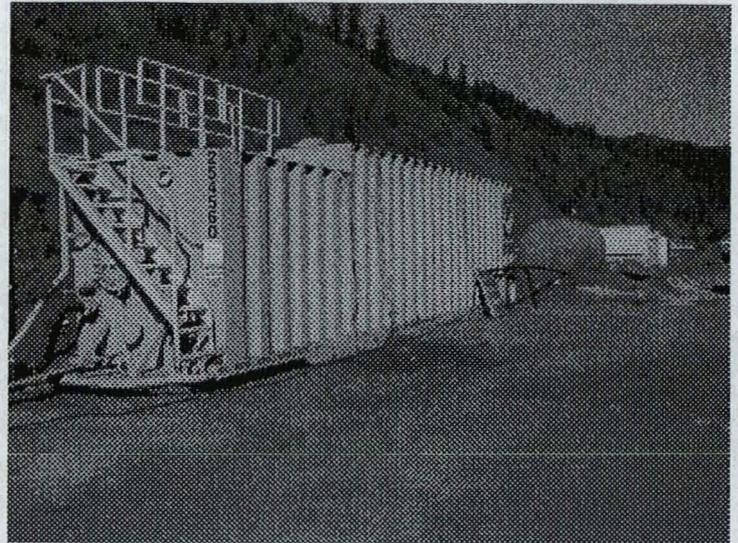
Avery Landing CAP 026.JPG
09/27/2000
Photo showing roll of liner positioned over band. Rock "barb" in background



Avery Landing CAP 027.JPG
09/27/2000
Workers preparing to splice the 2, 400' rolls of liner. Wooden platform in bg shows how low river is



Avery Landing CAP 028.JPG
09/27/2000
Same as previous photo



Avery Landing CAP 029.JPG
09/27/2000
O/W separator "overtopping". Workers turned on river pump but didn't turn on pump that delivers water to infil. tre